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(54) ZINC PHOSPHATE TREATMENT ON METALLIC SURFACE FOR CATION TYPE ELECTRODEPOSITION COATING

(57)Abstract:

PURPOSE: To form a film which is suitable for cation type electrodeposition coating and has excellent coating film adhesion, corrosion resistance, and more particularly warm hot salt water resistance and scab resistance by using the same zinc phosphate treating liquid on a metallic surface simultaneously having an iron surface, zinc surface and aluminum surface without contg. nickel which is increasingly restricted in use by environmental control.

CONSTITUTION: The metallic surface having all of the iron surface, the zinc surface and the aluminum surface is brought into, contact with the acidic zinc phosphate treating liquid without contg. nickel ion and contg. 0.1 to 4g/l cobalt ion, 0.1 to 3g/l manganese ion, 200 to 500mg/l film chemical formation accelerator and simple fluoride in terms of HF concn. and the complex fluoride at 0.01 to 0.5 molar ratio of the simple fluoride, by which the zinc phosphate film is formed on this metallic surface.